

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

**Patent Application**

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**Case:** 1-114-29-1-2-10-43

**Serial No.:** **Group Art Unit:** Not assigned yet

**Filing Date:** **Examiner:** Not assigned yet

**Title:** Phase Matched Parametric Light Generation  
in Monolithically Integrated Intersubband Optical Devices

**THE COMMISSIONER OF PATENTS AND TRADEMARKS  
WASHINGTON, DC 20231**

**SIR:**

**INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 CFR 1.97(b), the enclosed Information Disclosure Statement (IDS) is submitted for consideration in the above-identified application.

Copies of the reference(s) listed in the IDS are enclosed.

NO FEE IS REQUIRED.

Respectfully,

  
By \_\_\_\_\_

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610-691-7710

Date: 03/29/04

Att. IDS with reference(s)

FORM PTO-1449 (REV. 1-84)		U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE				CASE NO. 1-114-29-1-2-10-43			SERIAL NO				
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)						APPLICANT: Alexey Belyanin et al.							
						FILING DATE			GROUP				
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME			CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE	
	AA	5	8	9	8	7	2	0	4/99	Yamamoto et al.	372	39	
	AB												
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												
FOREIGN PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER				DATE	COUNTRY/AUTHOR			CLASS	SUB- CLASS	TRANSL'N YES NO	
	AL												
	AM												
	AN												
	AO												
	AP												
OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)													
	AR	Meyer et al., <i>Appl. Phys. Lett.</i> , Vol. 67, No. 5, pp. 608-610 (July 1995)											
	AS	Rosencher et al., <i>Science</i> , Vol. 271, pp. 168-173 (Jan 1996)											
	AT	Gurnick et al., <i>IEEE J. Quantum Electron.</i> , Vol. 19, No. 5, pp. 791-794 (May 1983)											
	AU	Capasso et al., <i>IEEE J. Quantum Electron.</i> , Vol. 30, No. 5, pp. 1313-1326 (May 1994)											
	AV	Vurgaftman et al., <i>IEEE J. Quantum Electron.</i> , Vol. 32, No. 8, pp. 1334-1346 (Aug 1996)											
	AW	Gmachl et al., <i>IEEE J. Quantum Electron.</i> , Vol. 39, No. 11, pp. 1345-1355 (Nov 2003)											
	AX	Owschimikow et al., <i>Phys. Rev. Lett.</i> , Vol. 90, No. 4, pp. 043902-(1-4) (Jan 2003)											
	AY	Fiore et al., <i>Nature.</i> , Vol. 391, pp. 463-466 (Jan 1998)											
	AZ	Vodopyanov et al., <i>Appl. Phys. Lett.</i> , Vol. 72, No. 21, pp. 2654-2656 (May 1998)											
	BA	Chowdhury et al., <i>IEEE Photon. Technol. Lett.</i> , Vol. 12, No. 5, pp. 486-488 (May 2000)											
	BB	Moutzouris et al., <i>Appl. Phys. Lett.</i> , Vol. 83, No. 4, pp. 620-622 (July 2003)											
	BC	Capasso et al., <i>Copending Patent Application</i> , Serial No. 10/261,423 filed on Sept 30, 2002, entitled <i>Nonlinear Semiconductor Light Sources</i> (no copy attached)											
EXAMINER:						DATE CONSIDERED:							
SHEET <u>  1  </u> OF <u>  1  </u>													